

Technical Soil Descriptions

Technical soil descriptions describe the characteristics or properties (physical and chemical) of the soil including the parent material in which it formed. A pedon, a small three-dimensional area of the soil, serves as the reference point for the technical or soil series description. The soil description compares the soil to similar and other nearby soils and also includes a range of important characteristics. The detailed description method follows standards outlined in the Soil Survey Manual and many of the technical terms used in the description are defined in Soil Taxonomy.

Counties with Published Soil Surveys

Technical soil descriptions are located in the county soil survey descriptive legend.

Counties without Published Soil Surveys

Technical soil descriptions can be found in adjacent county published soil survey descriptive legends or at our [Official Soil Series Description](#) web site.

This section includes:

- **(a) Classification of the soils**

Soil name	Family or higher taxonomic class
Armstrong-----	AQUERTIC HAPLUDALFS, FINE, MONTMORILLONITIC, MESIC
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Bremer-----	TYPIC ARGIAQUOLLS, FINE, MONTMORILLONITIC, MESIC
Carlow-----	VERTIC ENDOAQUOLLS, FINE, MONTMORILLONITIC, MESIC
Chariton-----	VERTIC ALBAQUALFS, FINE, MONTMORILLONITIC, MESIC
Edina-----	VERTIC ARGIALBOLLS, FINE, MONTMORILLONITIC, MESIC
Fatima-----	FLUVAQUENTIC HAPLUDOLLS, FINE-SILTY, MIXED, MESIC
Freeburg-----	Fine-silty, mixed, active, mesic Aquic HapludalFs
Gara-----	MOLLIC HAPLUDALFS, FINE-LOAMY, MIXED, MESIC
Greenton-----	AQUIC ARGIUOLLS, FINE, MONTMORILLONITIC, MESIC
Grundy-----	AQUERTIC ARGIUOLLS, FINE, MONTMORILLONITIC, MESIC
Hatton-----	Fine, smectitic, mesic Oxyaquic Vertic HapludalFs
Haynie-----	Coarse-silty, mixed, superactive, calcareous, mesic Mollic Udifluvents
Hodge-----	TYPIC UDIPSAMMENTS, MIXED, MESIC
Keswick-----	AQUERTIC CHROMIC HAPLUDALFS, FINE, MONTMORILLONITIC, MESIC
Knox-----	MOLLIC HAPLUDALFS, FINE-SILTY, MIXED, MESIC
Ladoga-----	VERTIC HAPLUDALFS, FINE, MONTMORILLONITIC, MESIC
Leta-----	FLUVAQUENTIC HAPLUDOLLS, CLAYEY OVER LOAMY, MONTMORILLONITIC, MESIC
Lindley-----	TYPIC HAPLUDALFS, FINE-LOAMY, MIXED, MESIC
Mandeville-----	TYPIC HAPLUDALFS, FINE-LOAMY, MIXED, MESIC
Marion-----	Fine, smectitic, mesic Aquertic Chromic HapludalFs
Marshall-----	TYPIC HAPLUDOLLS, FINE-SILTY, MIXED, MESIC
Mcgirk-----	VERTIC EPIAQUALFS, FINE, MONTMORILLONITIC, MESIC
Menfro-----	Fine-silty, mixed, superactive, mesic Typic HapludalFs
Mexico-----	AERIC VERTIC EPIAQUALFS, FINE, MONTMORILLONITIC, MESIC
Moniteau-----	Fine-silty, mixed, superactive, mesic Typic EndoaqualFs
Napier-----	CUMULIC HAPLUDOLLS, FINE-SILTY, MIXED, MESIC
Nodaway-----	MOLLIC UDIFLUVENTS, FINE-SILTY, MIXED, NONACID, MESIC
Norris-----	TYPIC UDORTHENTS, LOAMY, MIXED, ACID, MESIC, SHALLOW
Pershing-----	VERTIC EPIAQUALFS, FINE, MONTMORILLONITIC, MESIC
Riverwash-----	TYPIC UDIPSAMMENTS, MIXED, MESIC
Sarpy-----	TYPIC UDIPSAMMENTS, MIXED, MESIC
Sharpsburg-----	TYPIC ARGIUOLLS, FINE, MONTMORILLONITIC, MESIC
Weller-----	AQUERTIC CHROMIC HAPLUDALFS, FINE, MONTMORILLONITIC, MESIC
Winfield-----	OXYAQUIC HAPLUDALFS, FINE-SILTY, MIXED, MESIC

